

FILEID**P1SYSVECT

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- (1) 487 Macros for Loadable Services
- (1) 1112 SYSTEM SERVICE VECTOR DEFINITION
- (1) 1734 REGION 2 OF SYS. SERV. VECTOR DEFINITIONS

00000001 0000 1 LIBSWITCH=1 :GENERATE LIBRARY FORM OF SERVICE VECTOR
00000001 0000 1 P1VSWITCH=1 :GENERATE P1 SPACE VECTORS
0000 1 .NLIST CND
0000 10 .TITLE SYSSP1 VECTOR - P1 SYSTEM SERVICE VECTOR DEFINITIONS
0000 19 .IDENT 'V04-000'
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0000 22 *****
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0000 45 D. N. CUTLER 22-JUN-76
0000 46
0000 47 MODIFIED BY:
0000 48
0000 49 V03-041 LJK0287 Lawrence J. Kenah 27-Jun-1984
0000 50 Add R5 to entry mask for \$CANEXH system service.
0000 51
0000 52 V03-040 LMP0239 L. Mark Pilant, 23-Apr-1984 9:21
0000 53 Change SCHKPRO from an exec mode service to a kernel mode
0000 54 service. This was made necessary by the SCHKPRO (internal
0000 55 entry point) interface change.
0000 56
0000 57 V03-039 MMD0250 Meg Dumont, 27-Feb-1984 17:49
0000 58 Add support for \$MTACCESS installation specific accessibility
0000 59 routine
0000 60
0000 61 V03-038 DAS0001 David Solomon 20-Feb-1984
0000 62 Implement new design for RMS echo SY\$INPUT to SY\$OUTPUT
0000 63 (vs V03-019). Echo is now performed by a caller's mode AST
0000 64 routine declared in RMS\RMSEXRMS. Change INCB/DECB of FAB/RAB
0000 65 busy bit to BISB/BICB, now that we have room.
0000 66
0000 67 V03-037 SSA0004 Stan Amway 28-Dec-1983
0000 68 For \$SETPFM, changed number of parameters from 1 to 4
0000 69 and changed entry mask to save R2-R11.
0000 70
0000 71 V03-036 TMK0002 Todd M. Katz 19-Nov-1983

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|------|-----|---|
| 0000 | 72 | |
| 0000 | 73 | The entry point for \$ASCTOID can no longer be reached as a branch destination from the executive mode dispatcher. A temporary entry point (EXE\$ASCTOID) has been placed within this module, and a JMP is made from it to the real system service entry point (EXESSASCTOID). |
| 0000 | 74 | |
| 0000 | 75 | |
| 0000 | 76 | |
| 0000 | 77 | |
| 0000 | 78 | Also, change the entry mask for SYS\$TRNLOG, so that R8 is now saved. |
| 0000 | 79 | |
| 0000 | 80 | |
| 0000 | 81 | V03-035 TMK0001 Todd M. Katz 22-Oct-1983 |
| 0000 | 82 | The entry points for \$FINISH_RDB and \$IDTOASC can no longer be reached as branch destinations from the executive mode dispatcher. Temporary entry points (EXES\$FINISH_RDB and EXE\$IDTOASC) have been placed within this module, and from each a JMP is made to the real system service entry points (EXESS\$FINISH_RDB and EXESS\$IDTOASC). |
| 0000 | 83 | |
| 0000 | 84 | |
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| 0000 | 88 | |
| 0000 | 89 | V03-034 PRB0254 Paul Beck 15-Sep-1983 14:49 |
| 0000 | 90 | (1) Correct the way synchronous CJF services are defined. |
| 0000 | 91 | (2) Define loadable RUF services. |
| 0000 | 92 | |
| 0000 | 93 | V03-033 WMC0029 Wayne Cardoza 31-Aug-1983 |
| 0000 | 94 | Loadable services should not be unconditionally inhibited. |
| 0000 | 95 | Add an alternate CHMx argument to LDBSRV. |
| 0000 | 96 | |
| 0000 | 97 | V03-032 DWT0125 David W. Thiel 22-Aug-1983 |
| 0000 | 98 | Remove CHECKARGLIST and calls to same. |
| 0000 | 99 | |
| 0000 | 100 | V03-031 MKL0167 Mary Kay Lyons 19-Aug-1983 |
| 0000 | 101 | Generate loadable service vector for CJF\$GETCJI. |
| 0000 | 102 | |
| 0000 | 103 | V03-030 KBT0578 Keith B. Thompson 8-Aug-1983 |
| 0000 | 104 | Add parameter to \$FILESCAN |
| 0000 | 105 | |
| 0000 | 106 | V03-029 RAS0178 Ron Schaefer 29-Jul-1983 |
| 0000 | 107 | Add code to detect the AST/non-AST RMS FAB/RAB race condition where an RMS operation is initiated while the user FAB/RAB is still waiting for completion of previous operation. |
| 0000 | 108 | |
| 0000 | 109 | |
| 0000 | 110 | |
| 0000 | 111 | |
| 0000 | 112 | V03-028 WMC0028 Wayne Cardoza 29-Jun-1983 |
| 0000 | 113 | Add CJF services. |
| 0000 | 114 | |
| 0000 | 115 | V03-027 WMC0027 Wayne Cardoza 23-Jun-1983 |
| 0000 | 116 | Make old logical name services "all mode". |
| 0000 | 117 | Changes to image activator vectors. |
| 0000 | 118 | |
| 0000 | 119 | V03-026 JWH0222 Jeffrey W. Horn 2-May-1983 |
| 0000 | 120 | Add LDBSRV macro for vector definitions of loadable services. |
| 0000 | 121 | |
| 0000 | 122 | |
| 0000 | 123 | V03-025 DMW4035 DMWalp 26-May-1983 |
| 0000 | 124 | Integrate new logical name structures. |
| 0000 | 125 | |
| 0000 | 126 | V03-024 LMP0109 L. Mark Pilant, 28-Apr-1983 15:53 |
| 0000 | 127 | Make \$CHKPRO an EXEC mode system service to allow examination of various system data structures. |
| 0000 | 128 | : |

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| 0000 | 129 | |
| 0000 | 130 | V03-024 RAS0147 Ron Schaefer 28-APR-1983 Add \$FILESCAN. Add R8 and R9 to \$SETPRN register mask. |
| 0000 | 131 | |
| 0000 | 132 | |
| 0000 | 133 | V03-023 JLV0244 Jake VanNoy 27-APR-1983 Add \$BRKTHRUW. Change \$BRDCST to all mode service. \$BRDCST now uses \$BRKTHRU to do real work. |
| 0000 | 134 | |
| 0000 | 135 | |
| 0000 | 136 | |
| 0000 | 137 | V03-022 LMP0099 L. Mark Pilant, 13-Apr-1983 19:15 Add the \$CHKPRO system service. |
| 0000 | 138 | |
| 0000 | 139 | |
| 0000 | 140 | V03-021 ACG0319 Andrew C. Goldstein, 21-Mar-1983 13:51 Add \$GRANTID and \$REVOKEID services |
| 0000 | 141 | |
| 0000 | 142 | |
| 0000 | 143 | V03-020 JLV0234 Jake VanNoy 1-MAR-1983 Add \$BRKTHRU service. |
| 0000 | 144 | |
| 0000 | 145 | |
| 0000 | 146 | V03-019 RAS0120 Ron Schaefer 25-Feb-1983 Add support to echo SYSSINPUT to SYSSOUTPUT. This involves examining the return code from RMS for \$GET; if the special status RM\$S ECHO (not returned to users) is found, then create a RAB on the caller's stack and execute a \$PUT operation to echo the line. A certain amount of RMS synchronization code was shuffled around in order to make room for this. |
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| 0000 | 155 | V03-018 ACG0317 Andrew C. Goldstein, 22-Feb-1983 15:16 Fix off-by-one in kernel arg vector |
| 0000 | 156 | |
| 0000 | 157 | |
| 0000 | 158 | V03-017 RSHJ004 R. Scott Hanna 10-Feb-1983 Added \$ASCTOID, \$FINISH_RDB, and \$IDTOASC to system service list |
| 0000 | 159 | |
| 0000 | 160 | |
| 0000 | 161 | V03-016 RNG0016 Rod N. Gamache 1-Feb-1983 Added \$GETLKI to system service list |
| 0000 | 162 | |
| 0000 | 163 | |
| 0000 | 164 | V03-015 WMC0015 Wayne Cardoza 12-Jan-1983 Put back accidentally deleted space holder for RMS synchronization. |
| 0000 | 165 | |
| 0000 | 166 | |
| 0000 | 167 | V03-014 DMW4023 DMWalp 7-Jan-1983 Added \$CRELNT, \$CRELNM, \$DELLNM and \$TRNLNM |
| 0000 | 168 | |
| 0000 | 169 | |
| 0000 | 170 | |
| 0000 | 171 | V03-013 KDM0033 Kathleen D. Morse 13-Dec-1982 Correct usage of an interlocked instruction to flush the hardware cache queue. |
| 0000 | 172 | |
| 0000 | 173 | |
| 0000 | 174 | V03-012 ROW0146 Ralph O. Weber 6-DEC-1982 Insert routine header comments for INHEXCP, CHECKARGLIST, and EXESCMODKRNLX (MPSSCMODKRNLX). Move things around so that EXESCMODKRNL (MPSSCMODKRNL) header comments are near EXESCMODRNL (MPSSCMODRNL) and ASTEXIT comments are near ASTEXIT. Make basic kernel-mode .PSELECT definition for YSCMODK or MP\$CMOD1 immediately after executive mode code so that new code can be inserted in a way that preserves routine headers, conditional assembly, and .PSELECT definitions. Backout ROW145. 0000 180 and in its place, correct conditional assembly of BGEOU 10\$ 0000 181 after ACCVIO_RET so that it is assembled only for MPCMOD and 0000 182 so that it is located before ACCVIO_RET. Change PCB address 0000 183 0000 184 0000 185 |

186 : lookup at KERDSP in MPCMOD to use CTL\$GL_PCB so that it works
187 : correctly regardless of which processor executes it.
188 :
189 : V03-011 ROW0145 Ralph O. Weber 29-NOV-1982
190 : Move EXESEXCPNTN (and MPSSSEX(PTN) to before ASTEXIT (or
191 : MPSSASTEXIT) in an attempt to make branch destinations in
192 : EXE\$CMODKRNL reach.
193 :
194 : V03-010 KDM0030 Kathleen D. Morse 18-Nov-1982
195 : Add logic to MPCMOD that allows the primary to execute
196 : secondary-specific code without turning into a secondary.
197 :
198 : V03-009 MLJ0099 Martin L. Jack, 20-Oct-1982 19:42
199 : Complete V03-002 by correcting mode and argument count of
200 : \$SNDJBC and removing temporary stubs.
201 :
202 : V03-008 RIH0001 Richard I. Hustvedt 1-Jun-1982
203 : Correct handling of AST queue by secondary processor to
204 : avoid losing some AST notifications by incorrectly computing
205 : PHDSB_ASTLVL.
206 :
207 : V03-007 KDM0018 Kathleen D. Morse 30-Sep-1982
208 : Add MPSWITCH logic to create a kernel system service
209 : dispatcher for the secondary processor of an 11/782.
210 :
211 : V03-006 STJ3028 Steven T. Jeffreys 26-Sep-1982
212 : Added SERAPAT system service vector.
213 :
214 : V03-005 DWTU058 David Thiel 11-Aug-1982
215 : Eliminate use of R2 while waiting for service
216 : completion.
217 :
218 : V03-004 JWH0001 Jeffrey W. Horn 26-Jul-1982
219 : Add new RMS service, RMSRUHNDLR, an un-documented service
220 : which acts as the Recovery Unit handler for RMS.
221 :
222 : V03-003 PHL0102 Peter H. Lipman 16-Jul-1982
223 : Fix new SYNCH logic to always return SSS_NORMAL,
224 : not access IOSB if error from service, and return
225 : error status from SSETEF if event flag cluster went away
226 :
227 : V03-002 PHL0101 Peter H. Lipman 17-Jun-1982
228 : Add SSYNCH system service and fix SQIOW and SENQW to use the
229 : new code for waiting for the combination of EFN and IOSB
230 :
231 : Improve readability of conditionals.
232 :
233 : Add \$GETDVIW, \$GETJPIW, \$GETSYIW, \$SNDJBC, \$SNDJBCW, and
234 : \$UPDSECW. All the waiting versions use common code.
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238 : CHANGE MODE SYSTEM SERVICE DISPATCHER
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240 : MACRO LIBRARY CALLS
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0000 243 $ACBDEF ;DEFINE AST CONTROL BLOCK OFFSETS
0000 244 $CHFDEF ;DEFINE CONDITION HANDLING OFFSETS
0000 245 $ENQDEF ;DEFINE ENQ SYSTEM SERVICE ARGS
0000 246 $GETDVIDEF ;DEFINE GETDVI SYSTEM SERVICE ARGS
0000 247 $GETJPIDEF ;DEFINE GETJPI SYSTEM SERVICE ARGS
0000 248 $GETLKIDEF ;DEFINE GETLKI SYSTEM SERVICE ARGS
0000 249 $GETSYIDEF ;DEFINE GETSYI SYSTEM SERVICE ARGS
0000 250 $IPLDEF ;DEFINE INTERRUPT PRIORITY LEVELS
0000 254 $PCBDEF ;DEFINE PCB OFFSETS
0000 255 $PHDDEF ;DEFINE PHD OFFSETS
0000 256 $PRDEF ;DEFINE PROCESSOR REGISTERS
0000 257 $PSLDEF ;DEFINE PROCESSOR STATUS FIELDS
0000 258 $RABDEF ;DEFINE RMS RAB FIELDS
0000 259 $RPBDEF ;DEFINE REBOOT PARAMETER BLOCK
0000 260 $SQIODEF ;DEFINE QIO SYSTEM SERVICE ARGS
0000 261 $SGNDEF ;DEFINE SYSGEN PARAMETERS
0000 262 $SNDJBCDEF ;DEFINE SNDJBC SYSTEM SERVICE ARGS
0000 263 $SSDEF ;DEFINE SYSTEM STATUS VALUES
0000 264 $SYNCHDEF ;DEFINE SYNCH SYSTEM SERVICE ARGS
0000 265 $UPDSECDEF ;DEFINE UPDATE SECTION SYS SRV ARGS

0000 266 : LOCAL EQUATES
0000 267 :
0000 268 : LOCAL MACROS
0000 269 : CATO = 1@0
0000 270 : CAT7 = 1@7
0000 271 : DEF_MASK = CATO!CAT7 ;INHIBIT FOR 'ALL' AND 'NOT EXIT'
0000 272 : EXC_MASK = CAT7 ;INHIBIT ONLY FOR 'ALL' CASE
0000 273 :
0000 274 : GSYSSRV - GENERATE SYSTEM SERVICE ENTRY VECTOR
0000 275 :
0000 276 : GSYSSRV SRVNAME,MODE,NARG,REGISTS,MASK,NOSYNC
0000 277 :
0000 278 :
0000 279 : WHERE:
0000 280 : SRVNAME - SERVICE NAME LESS ANY PREFIX (SYSS,EXES,RMSS$)
0000 281 : MODE - MODE DESIGNATOR FOR SERVICE (K,E,ALL,R)
0000 282 : NARG - REQUIRED NUMBER OF ARGUMENTS
0000 283 : REGISTS - REGISTER SAVE LIST
0000 284 : MASK - SERVICE INHIBIT MASK(BIT SET IN CAT INHIBITS)
0000 285 : NOSYNC - NON-ZERO IF RMS SYNCHRONIZATION CODE NOT TO BE INCLUDED
0000 286 :
0000 287 :
0000 288 : .MACRO GSYSSRV,SRVNAME,MODE,NARG,REGS,MASK=DEF_MASK,NOSYNC
0000 289 : .IF NDF,RMS$SWITCH
0000 290 : .IF DF_LIBSWITCH
0000 291 : .PSECT $$0000,QUAD
0000 292 : .IFF
0000 293 : .PSECT $$0000,QUAD
0000 294 : .ENDC
0000 295 : .ALIGN QUAD
0000 296 : .IF DF_LIBSWITCH
0000 297 : .SYSS'SRVNAME:::
0000 298 : .IFF
0000 299 : .IF NDF,MPSWITCH
0000 300 : .WORD ^M<REGS>
0000 301 : .SRVNAME'_MASK = ^M<REGS>
0000 302 :

```

```

0000 303 .IFTF ;MPSWITCH
0000 304 .IF B NOSYNC
0000 305 SRV'MODE SRVNAME,NARG,MASK
0000 306 .IFF
0000 307 SRV'MODE SRVNAME,NARG,MASK,NOSYNC
0000 308 .ENDC
0000 309 .ENDC ;MPSWITCH
0000 310 .IFT
0000 311 .BLKL 2
0000 312 .ENDC
0000 313 .IFF
0000 314 SRV'MODE SRVNAME,NARG,MASK
0000 315 .ENDC
0000 316 .ENDM GSYSSRV
0000 317
0000 318 :
0000 319 : GCOMPSRVB - GENERATE COMPOSITE SYSTEM SERVICE ENTRY VECTOR BEGIN
0000 320 :
0000 321 : GCOMPSRVB SRVNAME,REGISTER_MASK[,PREFIX]
0000 322 :
0000 323 :
0000 324 : WHERE:
0000 325 : SRVNAME - SERVICE NAME LESS ANY PREFIX (SYSS, EXES)
0000 326 : REGISTER_MASK - SYMBOLIC REGISTER MASK, E.G QIO MASK
0000 327 : PREFIX - IF SUPPLIED, THE PREFIX FOR THE SERVICE NAME.
0000 328 : IF OMITTED, "SYSS" IS ASSUMED.
0000 329
0000 330 .MACRO GCOMPSRVB,SRVNAME,REGMSK,PREFIX=SYSS
0000 331 .IF NDF,MPSWITCH
0000 332 .IF NDF,RMSSWITCH
0000 333 .IF DF LIBSWITCH
0000 334 .PSECT $$0000,QUAD
0000 335 .IFF
0000 336 .PSECT $$0000,QUAD
0000 337 .ENDC
0000 338 .ALIGN QUAD
0000 339 .IF DF LIBSWITCH
0000 340 .IIF NOT_BLANK, <SRVNAME>,-
0000 341 'PREFIX'>SRVNAME:::
0000 342 .IFF
0000 343 .ENABL LSB
0000 344 COMPSTRT=:
0000 345 .IIF NOT_BLANK, <REGMSK>,-
0000 346 .WORD <REGMSK>
0000 347 .ENDC
0000 348 .ENDC
0000 349 .ENDC ;MPSWITCH
0000 350 .ENDM GCOMPSRVB
0000 351
0000 352 :
0000 353 : GCOMPSRVE - GENERATE COMPOSITE SYSTEM SERVICE ENTRY VECTOR END
0000 354 :
0000 355 : GCOMPSRVE QUADWORDS
0000 356 :
0000 357 :
0000 358 : WHERE:
0000 359 : QUADWORDS - NUMBER OF QUADWORDS TO RESERVE FOR VECTOR

```

```
0000 360
0000 361      .MACRO GCOMPSRVE,QUADS
0000 362      .IF NDF,MPSWITCH
0000 363      .IF NDF,RMSSWITCH
0000 364      .IF DF,LIBSWITCH
0000 365      .BLKQ QUADS
0000 366      .IFF
0000 367      COMPSIZE=-COMPSTRT
0000 368      .IF GE,QUADS*8-COMPSIZE
0000 369      .BLKB QUADS*8-COMPSIZE
0000 370      .IFF
0000 371      .ERROR ; VECTOR EXCEEDS ALLOCATED SIZE ;
0000 372      .ENDC
0000 373      .DSABL LSB
0000 374      .ENDC
0000 375      .ENDC
0000 376      .ENDC :MPSWITCH
0000 377      .ENDM GCOMPSRVE
0000 378
0000 379
0000 380      SRVK - GENERATE ENTRY FOR KERNEL MODE SERVICE
0000 381      :
0000 382      SRVK     SRVNAME,NARG,MASK
0000 383      :
0000 384      :
0000 385
0000 386      .MACRO SRVK,SRVNAME,NARG,MASK
0000 387      .IF NDF,RMSSWITCH
0000 388      .IF DF,MPSWITCH
0000 389      CMKSC_ 'SRVNAME==KCASCTR
0000 390      .IFF :MPSWITCH DEFINED
0000 391      CMKSC_ 'SRVNAME=KCASCTR
0000 392      CHMK #SRVNAME
0000 393      RET
0000 394      .PSECT Y$CMODKN,BYTE
0000 395      .=KCASCTR
0000 396      ASSUME NARG LE 127
0000 397      .BYTE NARG
0000 398      .PSECT Y$CMODKX,BYTE
0000 399      .=KCASCTR
0000 400      .BYTE MASK
0000 401      .PS_T Y$CMODK,BYTE
0000 402      .SIGNED_WORD EXES$'SRVNAME-KCASE+2
0000 403      .IFTF :MPSWITCH
0000 404      SRVNAME=KCASCTR
0000 405      KCASCTR=KCASCTR+1
0000 406      .ENDC :MPSWITCH
0000 407      .ENDC
0000 408      .ENDM SRVK
0000 409
0000 410      SRVE - GENERATE ENTRY FOR EXECUTIVE MODE SERVICE
0000 411      :
0000 412      :
0000 413
0000 414      .MACRO SRVE,SRVNAME,NARG,MASK
0000 415      .IF NDF,MPSWITCH
0000 416      .IF NDF,RMSSWITCH
```

```
0000 417 CMESC_ 'SRVNAME=ECASCTR
0000 418     CHME    #SRVNAME
0000 419     RET
0000 420     .PSECT  Y$CMODEN,BYTE
0000 421     .=ECASCTR
0000 422     ASSUME NARG LE 127
0000 423     .BYTE   NARG
0000 424     .PSECT  Y$CMODEX,BYTE
0000 425     .=ECASCTR
0000 426     .BYTE   MASK
0000 427     .PSECT  Y$CMODE,BYTE
0000 428     .SIGNED_WORD  EXES'SRVNAME-ECASE+2
0000 429     .ENDC
0000 430     SRVNAME=ECASCTR
0000 431     ECASCTR=ECASCTR+1
0000 432     .ENDC :MPSWITCH
0000 433     .ENDM  $RVE
0000 434 :
0000 435 :
0000 436 : MACROS FOR GENERATING RMS SYSTEM VECTORS
0000 437 :
0000 438     .MACRO  RMSSRV  SRVNAME NARG=1,REGS=<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>,-
0000 439             MASK,NOSYNC=0
0000 440             GSYSSRV SRVNAME,R,NARG,<REGS>,MASK,NOSYNC
0000 441             .ENDM  RMSSRV
0000 442 :
0000 443 : SRVR - GENERATE ENTRY FOR RMS SERVICE (EXEC MODE)
0000 444 :
0000 445     .MACRO  SRVR    SRVNAME,NARG,MASK,NOSYNC
0000 446     .IF      NDF,MPSWITCH
0000 447     .IF      NDF,RMSSWITCH
0000 448     CMESC_ 'SRVNAME=RCASCTR
0000 449     CHME    #SRVNAME
0000 450     .IF EQ NOSYNC
0000 451     .IIF GT <.+2-RMSSYNC>-127,-
0000 452     RMSSYNC=RMSWBR                      ;RESET BRANCH DESTINATION
0000 453     RMSWBR=.
0000 454     BRB     RMSSYNC
0000 455     .IFF
0000 456     RET
0000 457     .ENDC
0000 458     .PSECT  Y$CMODEN,BYTE
0000 459     .=RCASCTR
0000 460     ASSUME NARG LE 127
0000 461     .BYTE   NARG
0000 462     .PSECT  Y$CMODEX,BYTE
0000 463     .=RCASCTR
0000 464     .BYTE   MASK
0000 465     .IFF
0000 466     .PSECT  SSSRMSVEC,BYTE,NOWRT
0000 467     .SIGNED_WORD  RMSS$'SRVNAME-RCASE+2
0000 468     .ENDC
0000 469     SRVNAME=RCASCTR
0000 470     RCASCTR=RCASCTR+1
0000 471     .ENDC :MPSWITCH
0000 472     .ENDM  $RVR
0000 473
```

0000 474 :
0000 475 : SRVALL - GENERATE ENTRY FOR ALL MODE SERVICE
0000 476 :
0000 477 :
0000 478 .MACRO SRVALL,SRVNAME,NARG,MASK
0000 479 .IF NDF,MP\$SWITCH
0000 480 .IF NDF,RMSSWITCH
0000 481 JMP @EXES'SRVNAME+2
0000 482 .ENDC
0000 483 .ENDC :MP\$SWITCH
0000 484 .ENDM SRVALL
0000 485

```

0000 487 .SBTTL Macros for Loadable Services
0000 488
0000 489 :
0000 490 : LDBSRV - Generate Loadable Service Vector
0000 491
0000 492 : LDBSRV PREFIX,SRVNAME,MODE,REGS,SYN_EFN,SYN_IOSB,ALT_CHMX
0000 493 :
0000 494 :
0000 495 : Where:
0000 496 :   PREFIX      - Prefix for system service vector entry point name
0000 497 :   SRVNAME    - Service name less any prefix (SYSS,CJFS, etc.)
0000 498 :   MODE        - Mode designator for service (K,E,ALL)
0000 499 :   REGS        - Register save list
0000 500 :   SYN_EFN    - Event flag argument number for $SYNCH
0000 501 :   SYN_IOSB   - IOSB argument number for $SYNCH
0000 502 :   ALT_CHMX   - Use same CHMx number as this service
0000 503 :
0000 504 .MACRO LDBSRV,PREFIX,SRVNAME,MODE,REGS,SYN_EFN,SYN_IOSB,ALT_CHMX
0000 505 .IF NDF,RMSSWITCH
0000 506 .IF NDF,MPSWITCH
0000 507   .IF DF,LIBSWITCH
0000 508     .PSECT $SS$0000,QUAD
0000 509     .ALIGN QUAD
0000 510 PREFIX''SRVNAME'':
0000 511   .IF BLANK SYN_EFN
0000 512     .BLKL 2
0000 513   .IFF
0000 514     .BLKL 4
0000 515   .ENDC
0000 516   .IFF
0000 517     .PSECT $SS$0000,QUAD
0000 518     .ALIGN QUAD
0000 519     .WORD ^M<REGS>
0000 520     SRVNAME' MASK = ^M<REGS>
0000 521     LVEC_`MODE PREFIX,SRVNAME,SYN_EFN,SYN_IOSB,ALT_CHMX
0000 522   .ENDC
0000 523   .ENDC : MPSWITCH
0000 524   .ENDC : RMSSWITCH
0000 525 .ENDM LDBSRV
0000 526 :
0000 527 :
0000 528 : LVEC_K - Kernel Mode Loadable System Service Vector
0000 529 :
0000 530 : LVEC_K PREFIX,SERVICE,EFN,IOSB
0000 531 :
0000 532 :
0000 533 .MACRO LVEC_K,PREFIX,SERVICE,EFN,IOSB,ALT_CHMK
0000 534 .IF BLANK ALT_CHMK
0000 535   CMKSC_`SERVICE = PREFIX`KCASCTR
0000 536   .IFF
0000 537     CMKSC_`SERVICE = ALT_CHMK
0000 538   .ENDC
0000 539   CMKSC #SERVICE
0000 540   .IF NOT BLANK EFN
0000 541     PUSHL #EFN
0000 542     PUSHL #IOSB
0000 543     JMP  @#EXESLDB_SYNCH

```

```
0000 544 .IFF
0000 545 RET
0000 546 :ENDC
0000 547 :IF BLANK ALT_CHMK
0000 548 SERVICE = PREFIX'KCASCTR
0000 549 PREFIX'KCASCTR = PREFIX'KCASCTR + 1
0000 550 :IFF
0000 551 SERVICE = ALT_CHMK
0000 552 :ENDC
0000 553 :ENDM LVEC_K
0000 554
0000 555 :
0000 556 :LVEC_E - Exec Mode Loadable System Service Vector
0000 557 :
0000 558 :LVEC_E PREFIX,SERVICE,EFN,IOSB
0000 559 :
0000 560
0000 561 :MACRO LVEC_E,PREFIX,SERVICE,EFN,IOSB,ALT_CHME
0000 562 :IF BLANK ALT_CHME
0000 563 CMESC_'SERVICE = PREFIX'ECASCTR
0000 564 :IFF
0000 565 CMESC_'SERVICE = ALT_CHME
0000 566 :ENDC
0000 567 CHME #SERVICE
0000 568 :IF NOT BLANK EFN
0000 569 PUSHL #EFN
0000 570 PUSHL #IOSB
0000 571 JMP @EXESLDB_SYNCH
0000 572 :IFF
0000 573 RET
0000 574 :ENDC
0000 575 RET
0000 576 :IF BLANK ALT_CHME
0000 577 SERVICE = PREFIX'ECASCTR
0000 578 PREFIX'ECASCTR = PREFIX'ECASCTR + 1
0000 579 :IFF
0000 580 SERVICE = ALT_CHME
0000 581 :ENDC
0000 582 :ENDM LVEC_E
0000 583
0000 584 :
0000 585 :LVEC_ALL - Mode of caller Loadable System Service Vector
0000 586 :
0000 587 :LVEC_ALL PREFIX,SERVICE,EFN,IOSB
0000 588 :
0000 589 :MACRO LVEC_ALL,PREFIX,SERVICE,EFN,IOSB,ALT_CHMK
0000 590 JMP @EXES$SERVICE
0000 591 :IF NOT BLANK EFN
0000 592 .ERROR ; SYNCH NOT ALLOWED FOR ALL-MODE SERVICES
0000 593 :ENDC
0000 594 :ENDM LVEC_ALL
0000 595
0000 596
```

```

0000 1112 .SBttl SYSTEM SERVICE VECTOR DEFINITION
0000 1113 .
0000 1114 .
0000 1115 DEFINE ALL SYSTEM SERVICE VECTOR POSITIONS
0000 1116 .
0000 1117 .
0000 1118 .
0000 1122 .Psect $SS$0000,QUAD,ABS
7FFEDE00 0000 1126 .=^X7FFEDE00 ;BIASED IN P1 SPACE
DE00 1132 VECBASE: ;VECTOR AREA BASE
DE00 1133 .
DE00 1134 .
DE00 1135 QIO AND WAIT COMPOSITE SERVICE
DE00 1136 .
DE00 1137 .
DE00 1138 .
DE00 1139 .
DE00 1140 .
DE00 1141 .
DE00 1142 .
DE00 1143 .
DE00 1144 .
DE00 1145 .
DE00 1146 GCOMPSRVB QIOW,- ;QIO AND WAIT
DE00 1147 <QIO_MASK ! WAITFR_MASK ! CLREF_MASK ! SETEF_MASK>
DE00 1154 GCOMPSRVE 2 ;RESERVE 2 QUADWORDS FOR VECTOR
DE10 1158 .
DE10 1159 .
DE10 1160 CONDITION HANDLER DISPATCH VECTOR
DE10 1161 .
DE10 1162 .
DE10 1163 .
DE10 1164 .
DE10 1165 .
DE10 1166 .
DE10 1167 .
DE10 1168 .
DE10 1169 .ALIGN QUAD
80000010 DE10 1172 SYSCALL_HANDL == . - ^X7FFEDE00 + ^X80000000
7FFEDE18 DE10 1185 .BLKQ 1 ;RESERVE SPACE
DE18 1190 .
DE18 1191 .
DE18 1192 COMMAND INTERPRETER DISPATCH VECTOR
DE18 1193 .
DE18 1194 .
DE18 1195 .
DE18 1196 .
DE18 1197 .
DE18 1198 .
DE18 1199 .ALIGN QUAD
7FFEDE20 DE18 1201 SY$CLI::: ;COMMAND INTERPRETER DISPATCH
DE18 1206 .BLKQ 1 ;RESERVE SPACE

```

| | | | |
|------|------|---|--|
| DE20 | 1213 | : | |
| DE20 | 1214 | : | DEFINE REMAINING SERVICES |
| DE20 | 1215 | : | |
| DE20 | 1216 | : | |
| DE20 | 1217 | | GSYSSRV ADJSTK,K,3,- <R2,R3,R4,R5,R6>,- |
| DE20 | 1218 | | :ADJUST OUTER MODE STACK POINTER :REGISTERS R2-R6 |
| DE20 | 1219 | | :EXCEPTION MASK |
| DE28 | 1220 | | GSYSSRV ADJWSL,K,2,- <R2,R3,R4,R5> |
| DE28 | 1221 | | :ADJUST WORKING SET LIMIT :REGISTERS R2-R5 |
| DE30 | 1222 | | GSYSSRV ALCDNP,K,4,- <R2,R3,R4,R5,R6,R7> |
| DE30 | 1223 | | :ALLOCATE DIAGNOSTIC PAGE :REGISTERS R2-R7 |
| DE38 | 1224 | | GSYSSRV ALLOC,K,4,- <R2,R3,R4,R5,R6> |
| DE38 | 1225 | | :ALLOCATE DEVICE :REGISTERS R2-R6 |
| DE40 | 1226 | | GSYSSRV ASCFC,K,4,- <R2,R3,R4,R5,R6,R7,R8,R9> |
| DE40 | 1227 | | :ASSOCIATE COMMON EVENT FLAG CLUSTER R10,R11> :REGISTERS R2-R11 |
| DE48 | 1228 | | GSYSSRV ASCTIM,ALL,3,- <R2,R3,R4,R5,R6> |
| DE48 | 1229 | | :CONVERT TO ASCII TIME :REGISTERS R2-R6 |
| DE50 | 1230 | | GSYSSRV ASSIGN,K,4,- <R2,R3,R4,R5,R6,R7,R8,R9> |
| DE50 | 1231 | | :ASSIGN I/O CHANNEL R10,R11> :REGISTERS R2-R11 |
| DE58 | 1232 | | GSYSSRV BINIM,ALL,2,- <R2,R3,R4,R5,R6,R7,R8> |
| DE58 | 1233 | | :CONVERT TO BINARY TIME :REGISTERS R2-R8 |
| DE60 | 1234 | | GSYSSRV CANCEL,K,1,- <R2,R3,R4,R5,R6,R7,R8> |
| DE60 | 1235 | | :CANCEL I/O ON CHANNEL :REGISTERS R2-R8 |
| DE68 | 1236 | | GSYSSRV CANIM,K,2,- <R2,R3,R4,R5> |
| DE68 | 1237 | | :CANCEL TIMER REQUEST :REGISTERS R2-R5 |
| DE70 | 1238 | | GSYSSRV CANWAK,K,2,- <R2,R3,R4,R5> |
| DE70 | 1239 | | :CANCEL WAKE UP REQUESTS :REGISTERS R2-R5 |
| DE78 | 1240 | | GSYSSRV CRMPSC,K,12,- <R2,R3,R4,R5,R6,R7,R8,R9> |
| DE78 | 1241 | | :CREATE AND MAP SECTION R10,R11> :REGISTERS R2-R11 |
| DE80 | 1242 | | GSYSSRV CLRPAR,K,2,- <R2,R3,R4,R5> |
| DE80 | 1243 | | :CLEAR HARD PARITY ERROR :REGISTERS R2-R5 |
| DE88 | 1244 | | GSYSSRV CMEXEC,E,2,- <R4> |
| DE88 | 1245 | | :CHANGE MODE TO EXECUTIVE :REGISTER R4 |
| DE90 | 1246 | | GSYSSRV CMKRNL,K,2,- <R4> |
| DE90 | 1247 | | :CHANGE MODE TO KERNEL :REGISTER R4 |
| DE98 | 1248 | | GSYSSRV CLREF,K,1,- <R2,R3,R4,R5> |
| DE98 | 1249 | | :CLEAR EVENT FLAG :REGISTERS R2-R5. SEE WAITFR COMMENTS. |
| DEA0 | 1250 | | GSYSSRV CNTREG,K,4,- <R2,R3,R4,R5,R6,R7> |
| DEA0 | 1251 | | :CONTRACT REGION :REGISTERS R2-R7 |
| DEA8 | 1252 | | GSYSSRV GETPTI,K,5,- <R2,R3,R4,R5,R6,R7,R8,R9> |
| DEA8 | 1253 | | :GET PAGE TABLE INFORMATION R10> :REGISTERS R2-R10 |
| DEB0 | 1254 | | GSYSSRV CRELOG,ALL,4,- <R2,R3,R4,R5,R6,R7,R8> |
| DEB0 | 1255 | | :CREATE LOGICAL NAME :REGISTERS R2-R8 |
| DEB8 | 1256 | | GSYSSRV CREMBX,K,7,- <R2,R3,R4,R5,R6,R7,R8> |
| DEB8 | 1257 | | :CREATE MAILBOX :REGISTERS R2-R8 |
| DEC0 | 1258 | | GSYSSRV CREPRC,K,12,- <R2,R3,R4,R5,R6,R7,R8,R9> |
| DEC0 | 1259 | | :CREATE PROCESS R10,R11> :REGISTERS R2-R11 |
| DEC8 | 1260 | | GSYSSRV CREVA,K,3,- <R2,R3,R4,R5,R6,R7,R8>,- |
| DEC8 | 1261 | | :CREATE VIRTUAL ADDRESS :REGISTERS R2-R8 |
| DEC8 | 1262 | | EXC MASK |
| DED0 | 1263 | | GSYSSRV DACEFC,K,1,- <R2,R3,R4,R5,R6,R7,R8,R9> |
| DED0 | 1264 | | :DISASSOCIATE EVENT FLAG CLUSTER R10,R11> :REGISTERS R2-R11 |
| DED8 | 1265 | | GSYSSRV DALLOC,K,2,- <R2,R3,R4,R5,R8> |
| DED8 | 1266 | | :DEALLOCATE DEVICE :REGISTERS R2-R5,R8 |
| DEE0 | 1267 | | GSYSSRV DASSGN,K,1,- <R2,R3,R4,R5,R6,R7,R8> |
| DEE0 | 1268 | | :DEASSIGN I/O CHANNEL :REGISTERS R2-R8 |
| DEE8 | 1269 | | GSYSSRV DCLAST,K,3,- :DECLARE AST SYSTEM SERVICE |

| | | |
|-----------|--|--|
| DFC8 1334 | GSYSSRV QIO,K,12,- <R2,R3,R4,R5,R6,R7,R8,R9> | :QUEUE I/O REQUEST R10,R11>;REGISTERS R2-R11 |
| DFD0 1335 | GSYSSRV READEF,K,2,- <R2,R3,R4,R5> | :READ EVENT FLAG REGISTERS R2-R5 |
| DFD0 1336 | GSYSSRV RESUME,K,2,- <R2,R3,R4,R5> | :RESUME PROCESS REGISTERS R2-R5 |
| DFD8 1337 | GSYSSRV RUNDWN,K,1,- <R2,R3,R4,R5> | :RUNDOWN REGISTERS R2-R5 |
| DFD8 1338 | GSYSSRV SND\$MB,E,2,- <R2,R3,R4,R5,R6,R7,R8,R9> | :SEND MSG TO SYMBIONT MANAGER R10,R11>;REGISTERS R2-R11 |
| DFE0 1339 | GSYSSRV SCHDWK,K,4,- <R2,R3,R4,R5,R6,R7,R8,R9> | :SCHEDULE WAKEUP REGISTERS R2-R9 |
| DFE0 1340 | GSYSSRV SETAST,K,1,- <R2,R3,R4,R5> | :SET AST ENABLE SERVICE REGISTERS R2-R5 |
| DFE0 1341 | GSYSSRV SETEF,K,1,- <R2,R3,R4,R5> | :SET EVENT FLAG REGISTERS R2-R5 |
| DFE8 1342 | GSYSSRV SETEXV,K,4,- <R2,R3,R4,R5> | :SET EXCEPTION VECTOR REGISTERS R2-R5 |
| DFE8 1343 | GSYSSRV SETPRN,K,1,- <R2,R3,R4,R5,R6,R7,R8,R9> | :SET PROCESS NAME REGISTERS R2-R9 |
| DFF0 1344 | GSYSSRV SETPRA,K,2,- <R2,R3,R4,R5> | :SET POWER RECOVERY AST REGISTERS R2-R5 |
| DFF0 1345 | GSYSSRV SETIMR,K,4,- <R2,R3,R4,R5,R6,R7,R8,R9> | :SET TIMER R10,R11>;REGISTERS R2-R11 |
| E000 1346 | GSYSSRV SETPRI,K,4,- <R2,R3,R4,R5> | :SET PROCESS PRIORITY REGISTERS R2-R5 |
| E000 1347 | GSYSSRV SETPRT,K,5,- <R2,R3,R4,R5,R6,R7,R8,R9> | :SET PAGE PROTECTION REGISTERS R2-R9 |
| E010 1348 | GSYSSRV SETRWM,K,1,- <R4> | :SET RESOURCE WAIT MODE REGISTER R4 |
| E010 1349 | GSYSSRV SETSFN,K,1,- <R4>,EXC MASK | :SET SYSTEM SERVICE FAILURE MODE REGISTER R4, AND EXECPTION MASK |
| E018 1350 | GSYSSRV SETSWM,K,1,- <R4> | :SET PROCESS SWAP MODE REGISTER R4 |
| E018 1351 | GSYSSRV SUSPND,K,2,- <R2,R3,R4,R5> | :SUSPEND PROCESS REGISTERS R2-R5 |
| E020 1352 | GSYSSRV TRNLOG,ALL,6,- <R2,R3,R4,R5,R6,R7,R8> | :TRANSLATE LOGICAL NAME REGISTERS R2-R8 |
| E020 1353 | GSYSSRV ULKPAG,K,3,- <R2,R3,R4,R5,R6,R7,R8> | :UNLOCK PAGE FROM MEMORY REGISTERS R2-R8 |
| E028 1354 | GSYSSRV ULWSET,K,3,- <R2,R3,R4,R5,R6,R7,R8> | :UNLOCK PAGES FROM WORKING SET REGISTERS R2-R8 |
| E028 1355 | GSYSSRV UNWIND,ALL,2,- <R2,R3,R4,R5> | :UNWIND PROCEDURE CALL STACK REGISTERS R2-R5 |
| E038 1356 | GSYSSRV WAI\$FR,K,1,- <R2,R3,R4,R5,R6> | :WAIT FOR EVENT FLAG REGISTERS R2-R6. IF R8 IS EVER USED THE RMS SYNCHRONIZATION CODE MUST BE MODIFIED TO SAVE IT ALSO. |
| E038 1357 | GSYSSRV WAKE,K,2,- <R2,R3,R4,R5> | :WAKE PROCESS REGISTERS R2-R5 |
| E040 1358 | GSYSSRV WFLAND,K,2,- <R2,R3,R4,R5,R6> | :WAIT FOR LOGICAL AND OF EVENT FLAGS REGISTERS R2-R6 |
| E040 1359 | GSYSSRV WFLOR,K,2,- <R2,R3,R4,R5,R6> | :WAIT FOR LOGICAL OR OF EVENT FLAGS REGISTERS R2-R5 |
| E048 1360 | GSYSSRV BRDCST,ALL,2,- <R2,R3,R4,R5,R6> | :BROADCAST TO TERMINALS REGISTERS R2-R6 |
| E048 1361 | GSYSSRV DCLCMH,K,3,- | :DECLARE CHANGE MODE HANDLER |
| E048 1362 | | |
| E048 1363 | | |
| E040 1364 | | |
| E040 1365 | | |
| E048 1366 | | |
| E048 1367 | | |
| E050 1368 | | |
| E050 1369 | | |
| E058 1370 | | |
| E058 1371 | | |
| E060 1372 | | |
| E060 1373 | | |
| E068 1374 | | |
| E068 1375 | | |
| E070 1376 | | |
| E070 1377 | | |
| E078 1378 | | |
| E078 1379 | | |
| E080 1380 | | |
| E080 1381 | | |
| E080 1382 | | |
| E080 1383 | | |
| E088 1384 | | |
| E088 1385 | | |
| E090 1386 | | |
| E090 1387 | | |
| E098 1388 | | |
| E098 1389 | | |
| EOAO 1390 | | |

| | | |
|-----------|-----------------------------------|-----------------------------------|
| E0A0 1391 | GSYSSRV <R4> | :SAVE R4 |
| E0A8 1392 | SETPFM,K 4,- | :SET PAGE FAULT MONITORING |
| E0A8 1393 | <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> | ;REGISTERS R2-R11 |
| E0B0 1394 | GSYSSRV GETMSG,ALL,5,- | :GET MESSAGE |
| E0B0 1395 | <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> | ;REGISTERS R2-R11 |
| E0B8 1396 | GSYSSRV DERLMB,K 1,- | :DECLARE ERROR LOG MAILBOX |
| E0B8 1397 | <R2,R3,R4,R5> | :REGISTERS R2-R5 |
| E0C0 1398 | GSYSSRV CANEXH,K 1,- | :CANCEL EXIT HANDLER |
| E0C0 1399 | <R2,R3,R4,R5> | :REGISTERS R2-R5 |
| E0C8 1400 | GSYSSRV GETCHN,K 5,- | :GET CHANNEL INFORMATION |
| E0C8 1401 | <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> | ;REGISTERS R2-R11 |
| E0D0 1402 | GSYSSRV GETDEV,K 5,- | :GET DEVICE INFORMATION |
| E0D0 1403 | <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> | ;REGISTERS R2-R11 |
| E0D8 1404 | GSYSSRV GETJPI,K 7,- | :GET JOB PROCESS INFORMATION |
| E0D8 1405 | <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> | ;REGISTERS R2-R11 |
| E0E0 1406 | GSYSSRV PUTMSG,ALL,3,- | :PUT FORMATTED ERROR MESSAGE |
| E0E0 1407 | <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> | ;REGISTERS R2-R11 |
| E0E8 1408 | GSYSSRV EXCMMSG,ALL,2,- | :OUTPUT EXCEPTION SUMMARY MESSAGE |
| E0E8 1409 | <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> | ;REGISTERS R2-R11 |
| E0F0 1410 | GSYSSRV SNDACC,E 2,- | :SEND MSG TO ACCOUNTING MANAGER |
| E0F0 1411 | <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> | ;REGISTERS R2-R11 |
| E0F8 1412 | GSYSSRV SETIME,K 1,- | :SET SYSTEM TIME |
| E0F8 1413 | <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> | ;REGISTERS R2-R11 |
| E100 1414 | GSYSSRV SETPRV,K 4,- | :SET PRIVILEGES |
| E100 1415 | <R2,R3,R4,R5,R6,R7,R8> | ;REGISTERS R2-R8 |

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E108 1417 : SPECIAL VECTORS FOR AST DELIVERY AND CLEARING
E108 1418 :
E108 1419 :
E108 1420 : SYS$CLRAST CLEARS THE CURRENTLY ACTIVE AST STATUS
E108 1421 :
E108 1422 : SYS$GL_ASTRET CONTAINS THE VALUE OF THE RETURN ADDRESS FROM
E108 1423 : THE CALL INSTRUCTION USED TO DISPATCH AN AST. THIS VALUE CAN
E108 1424 : BE USED WHEN SEARCHING UP THE STACK FOR THE AST CALL FRAME.
E108 1425 :
E108 1429 .PSECT $SS0000,QUAD
E108 1433 .ALIGN QUAD
E108 1435 SYSSCLRAST:: :CLEAR ACTIVE AST
7FFEE110 E108 1436 .BLKL 2
E110 1443 .ALIGN QUAD
E110 1445 SYSSGL_ASTRET:: :
7FFEE114 E110 1446 .BLKL 1
E114 1447 SYSSGL_COMMON:: :ADDRESS OF CORE COMMON DESCRIPTOR
7FFEE118 E114 1448 .BLKL 1
E118 1454 :
E118 1455 :
E118 1456 : ENTRY VECTOR FOR CONDITION HANDLER SEARCH. LIB$SIGNAL USES THIS VECTOR
E118 1457 : TO SHARE EXCEPTION'S CODE TO SEARCH FOR AND CALL CONDITION HANDLERS.
E118 1458 : THIS ENTRY IS NOT CALLED; RATHER, IT IS JUMPED TO. NO RETURN IS MADE.
E118 1459 :
E118 1460 :
E118 1461 .ALIGN QUAD
E118 1463 SYSSSRCHANDLER:: :
7FFEE120 E118 1467 .BLKQ 1 :RESERVE SPACE
E120 1469 :
E120 1471 :
E120 1472 : NOTE THAT THE CODE IN PSECT $SS0000 AT THIS POINT CANNOT EXCEED 320 (HEX)
E120 1473 : WITHOUT MODIFYING THE RMS SYNCHRONIZATION CODE WHICH PRECEDES THE RMS
E120 1474 : VECTORS WHICH CANNOT BE MOVED.
E120 1475 :
E120 1476 :

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PSE

\$AB
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E120 1478 :
E120 1479 : Set up the base for the RMS service codes. We leave a hole so that
E120 1480 : other exec mode system services can be defined later in this module.
E120 1481 : The hole is defined by the offset between ECASCTR and RCASCTR; it
E120 1482 : is checked with an ASSUME at the end of all service definitions.
E120 1483 :
E120 1487 :

E120 1507 :++
E120 1508 :
E120 1509 : RMS SERVICES
E120 1510 :
E120 1511 :
E120 1512 : RMS SYNCHRONIZATION ROUTINE
E120 1513 :
E120 1514 : THE FOLLOWING ROUTINE IS USED BY THE VARIOUS RMS SERVICES IN ORDER
E120 1515 : TO AWAIT I/O COMPLETION. THE ROUTINE IS IN THE VECTOR AREA IN ORDER
E120 1516 : TO WAIT AT THE CALLER'S MODE, THUS ALLOWING AST ACTIVITY FOR EITHER
E120 1517 : USER OR SUPERVISOR MODE, OR BOTH.
E120 1518 :
E120 1519 : THE FAB/RAB IS CHECKED FOR A LEGAL BLOCK ID, I.E., A 1 OR 3, AND
E120 1520 : AN ERROR RETURNED IF INVALID. THE STRUCTURE IS NOT REPROBED.
E120 1521 :
E120 1522 : NOTE THAT EACH RMS SERVICE VECTOR TERMINATES WITH A BRANCH TO THIS
E120 1523 : ROUTINE.
E120 1524 :
E120 1525 : THIS ROUTINE ASSUMES THAT THE FOLLOWING REGISTERS HAVE BEEN SET BY THE
E120 1526 : EXITING RMS EXEC-LEVEL CODE WHENEVER A STALL IS REQUIRED:
E120 1527 :
E120 1528 : R3 EFN TO WAIT ON
E120 1529 : R8 RAB/FAB ADDRESS TO WAIT ON
E120 1530 : R4 (RMSWAIT BR ENTRY POINT ONLY, SWAIT SERVICE) FLAG FOR WAIT TYPE
E120 1531 : (0 = SAME RAB, 1 = DIFFERENT RABS)
E120 1532 :
E120 1533 :--
7FFEE120 E120 1537 .PSECT \$\$0000,QUAD
7FFEE168 E120 1539 .BLKB ^X320-<.-VECBASE>
E168 1616 .BLKB ^X48
E168 1617

:THIS TAKES THE SPACE OF THE CODE
:WHEN GENERATING THE GLOBAL SYMBOLS

| | | |
|------|------|--|
| E168 | 1621 | : |
| E168 | 1622 | : |
| E168 | 1623 | : |
| E168 | 1624 | : |
| E168 | 1629 | : |
| E168 | 1630 | : |
| E168 | 1631 | : |
| E168 | 1632 | DEFINE RMS SERVICES |
| E170 | 1633 | RMSSRV DELETE ;DELETE A RECORD |
| E170 | 1633 | .NLIST CND |
| E170 | 1634 | RMSSRV FIND ;FIND RECORD |
| E178 | 1635 | RMSSRV FREE ;RELEASE LOCK ON ALL RECORDS |
| E180 | 1636 | RMSSRV GET ;GET A RECORD |
| E188 | 1637 | RMSSRV PUT ;PUT A RECORD |
| E190 | 1638 | RMSSRV READ ;READ A BLOCK |
| E198 | 1639 | RMSSRV RELEASE ;RELEASE LOCK ON NAMED RECORD |
| E1A0 | 1640 | RMSSRV UPDATE ;REWRITE EXISTING RECORD |
| E1A8 | 1646 | RMSSRV WAIT ;STALL FOR RECORD OPERATION COMPLETE |
| E1B0 | 1652 | RMSSRV WRITE ;WRITE BLOCK |
| E1B8 | 1653 | : |
| E1B8 | 1654 | LOWER USAGE OPERATIONS |
| E1B8 | 1655 | : |
| E1B8 | 1656 | RMSSRV CLOSE ;CLOSE FILE |
| E1C0 | 1657 | RMSSRV CONNECT ;CONNECT RAB |
| E1C8 | 1658 | RMSSRV CREATE ;CREATE FILE |
| E1D0 | 1659 | RMSSRV DISCONNECT ;DISCONNECT RAB |
| E1D8 | 1660 | RMSSRV DISPLAY ;DISPLAY FILE INFORMATION |
| E1E0 | 1661 | RMSSRV ERASE ;ERASE (DELETE) FILE |
| E1E8 | 1662 | RMSSRV EXTEND ;EXTEND FILE ALLOCATION |
| E1F0 | 1663 | RMSSRV FLUSH ;FINISH I/O ACTIVITY FOR STREAM |
| E1F8 | 1664 | RMSSRV MODIFY ;MODIFY FILE ATTRIBUTES |
| E200 | 1665 | RMSSRV NXTVOL ;NEXT VOLUME |
| E208 | 1666 | RMSSRV OPEN ;OPEN FILE |
| E210 | 1667 | RMSSRV REWIND ;REWIND FILE |
| E218 | 1668 | RMSSRV SPACE ;POSITION FOR TRANSFER |
| E220 | 1669 | RMSSRV TRUNCATE ;TRUNCATE FILE |
| E228 | 1670 | RMSSRV ENTER ;ENTER FILENAME INTO DIRECTORY |
| E230 | 1671 | RMSSRV PARSE ;PARSE FILENAME SPECIFICATION |
| E238 | 1672 | RMSSRV REMOVF ;REMOVE FILENAME FROM DIRECTORY |
| E240 | 1673 | RMSSRV RENAME,NARG=4 ;RENAME A FILE |
| E248 | 1674 | RMSSRV SEARCH ;SEARCH A FILE DIRECTORY |
| E250 | 1675 | RMSSRV SETDDIR,NARG=3,NOSYNC=1 ;SET DEFAULT DIRECTORY STRING |
| E258 | 1676 | RMSSRV SETDFPROT,REGS=<R2,R3>,NARG=2,NOSYNC=1 ;SET DEFAULT FILE PROTECTION MASK |
| E260 | 1678 | RMSSRV SSVEXC,REGS=<>,NOSYNC=1 |
| E260 | 1679 | RMSSRV ;GENERATE SYS SERV EXCEPTION |
| E268 | 1680 | RMSSRV RMSRUNDWN,NARG=2,NOSYNC=1 ;PERFORM RUNDOWN ON RMS FILES |
| E270 | 1682 | RMSSRV RMSRUHNDLR,NARG=5,NOSYNC=1 ;RMS Recovery Unit Handler |
| E278 | 1684 | RMSSRV FILESCAN,NARG=3,NOSYNC=1 ;Perform syntax check for file specs |
| E280 | 1686 | : |
| E280 | 1687 | E280 1688 : ADD NEW RMS SERVICES IN FRONT OF THIS CODE! |
| E280 | 1689 | E280 1690 : Now we add special non-vector code. Because of the CASE instruction |
| E280 | 1691 | E280 1691 ; used at the front of RMS, this code (and any future additional code) |

E280 1692 : must be the last element of the RMS area.
E280 1693 :
E280 1694 :
E280 1695 GCOMPSRVB ;Helper branch to error processing
E280 1704 GCOMPSRVE 1
E288 1705 :
E288 1707 :
E288 1708 : NOTE: RMSVECEND MARKS THE END OF THE CURRENTLY DEFINED RMS VECTORS.
E288 1709 : SSVECREG2 MARKS THE START OF THE SECOND REGION OF SYSTEM
E288 1710 : SERVICE VECTORS. THERE IS EMPTY SPACE BETWEEN THESE REGIONS
E288 1711 : FOR FUTURE RMS VECTORS. IF NECESSARY, THIS SPACE CAN ALSO
E288 1712 : BE USED FOR SYSTEM SERVICE VECTORS BY BACKING UP SSVECREG2
(TOWARDS THE RMS VECTORS) AND ADDING NEW SYSTEM SERVICE VECTORS
E288 1713 : BEFORE THE ALREADY DEFINED ONES. IN OTHER WORDS, THESE TWO
E288 1714 : VECTOR REGIONS MAY GROW TOWARDS EACH OTHER. IF THEY COLLIDE,
E288 1715 : AN ASSEMBLY ERROR IS GENERATED.
E288 1716 :
E288 1717 .PSECT \$SS\$0000,QUAD
E288 1723 :
7FFEE3C0 E288 1724 RMSVECEND:
E288 1725 .=VECBASE+^X5C0
E3C0 1726 SSVECREG2:
E3C0 1732 : START OF SYSTEM SERVICE VECTOR REGION 2

E3C0 1734 .SBTTL REGION 2 OF SYS. SERV. VECTOR DEFINITIONS

E3C0 1735

E3C0 1736 :

E3C0 1737 : Note: Service codes for exec mode services in this region are reserved by the offset defined above between RCASCTR and ECASCTR.

E3C0 1738 : If the ASSUME at the end of this section breaks, the offset must be increased.

E3C0 1741 :

E3C0 1742

E3C0 1743 GSYSSRV ENQ,K,11,- ; ENQUEUE
E3C0 1744 <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11

E3C8 1745 GSYSSRV DEQ,K,4,- ; DEQUEUE
E3C8 1746 <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11

E3D0 1747 GCOMPSRVB ENQW,- ; ENQUEUE AND WAIT
E3D0 1748 <ENQ_MASK ! WAITFR_MASK ! CLREF_MASK ! SETEF_MASK>

E3D0 1762 GCOMPSRVE 3 ; RESERVE 3 QUADWORDS FOR VECTOR

E3E8 1763 GSYSSRV SETSSF,K,1,- ; SET SYSTEM SERVICE FILTER MASK
E3E8 1764 <R4> ; REGISTER R4

E3F0 1765 GSYSSRV SETSTK,K,3,- ; SET STACK LIMITS
E3F0 1766 <R2,R3,R4> ; REGISTERS R2,R3,R4

E3F8 1767 GSYSSRV GETSYI,K,7,- ; GET SYSTEM INFORMATION
E3F8 1768 <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11

E400 1769 GSYSSRV IMGFIX,ALL,0,- ; IMAGE ADDRESS RELOCATION FIXUP
E400 1770 <R2,R3,R4,R5> ; REGISTERS R2-R5

E408 1771 GCOMPSRVB IMGFIX_2,- ; ***** TEMP *****
E408 1772 <0>

E408 1773 GCOMPSRVE 1 ; ***** TEMP *****
E410 1774 GSYSSRV GETDVI,K,8,- ; GET DEVICE AND VOLUME INFORMATION
E410 1775 <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11

E418 1776 GCOMPSRVB GETDVIW,- ; GET DEVICE INFORMATION AND WAIT
E418 1777 <GETDVI_MASK ! GETJPI_SYNCH_MASK>

E418 1786 GCOMPSRVE 1

E420 1787 GCOMPSRVB GETJPIW,- ; GET JOB/PROCESS INFORMATION AND WAIT
E420 1788 <GETJPI_MASK ! GETJPI_SYNCH_MASK>

E420 1798 GCOMPSRVE 2

E430 1799 GCOMPSRVB GETSYIW,- ; GET SYSTEM INFORMATION AND WAIT
E430 1800 <GETSYI_MASK ! GETJPI_SYNCH_MASK>

E430 1809 GCOMPSRVE 1

E438 1810 GCOMPSRVB SNDJBCW,- ; SEND TO JOB CONTROLLER AND WAIT
E438 1811 <SNDJBC_MASK ! GETJPI_SYNCH_MASK>

E438 1820 GCOMPSRVE 1

E440 1821 GCOMPSRVB SYNCH,- ; SYNCHRONIZE EFN AND IOSB
E440 1822 <WAITFR_MASK ! CLREF_MASK ! SETEF_MASK>

E440 1861 GCOMPSRVE 6 ; RESERVE 6 QUADWORDS FOR VECTOR

E470 1862 GSYSSRV ERAPAT,K,3,- ; GENERATE A SECURITY ERASE PATTERN
E470 1863 <R4> ; SAVE R4

E478 1864 GSYSSRV CRELNT,K,8,- ; CREATE LOGICAL NAME TABLE
E478 1865 <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11

E480 1866 GSYSSRV CRELNW,K,5,- ; CREATE LOGICAL NAME
E480 1867 <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11

E488 1868 GSYSSRV DELLNW,K,3,- ; DELETE LOGICAL NAME
E488 1869 <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11

E490 1870 GSYSSRV TRNLNM,K,5,- ; TRANSLATE LOGICAL NAME
E490 1871 <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11

E498 1872 GSYSSRV GETLKI,K,7,- ; GET LOCK INFORMATION
E498 1873 <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11

E4A0 1874 GCOMPSRVB GETLKIW,- ; GET LOCK INFORMATION AND WAIT

| | | | | | |
|----------|-------------|--|-------|--------------|--|
| E4A0 | 1875 | <GETLKI_MASK ! WAITFR_MASK ! CLREF_MASK ! SETEF_MASK> | | | |
| E4A0 | 1887 | GCOMPSRVE 2 ; RÉSERVE 2 QUADWORDS FOR VECTOR | | | |
| E4B0 | 1888 | | | | |
| E4B0 | 1889 | GSYSSRV ASCTOID,E,3,- ; ASCII TO IDENTIFIER CONVERSION | | | |
| E4B0 | 1890 | <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11 | | | |
| E4B8 | 1891 | GSYSSRV FINISH_RDB,E,1,- ; FINISH RDB CONTEXT STREAM | | | |
| E4B8 | 1892 | <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11 | | | |
| E4C0 | 1893 | GSYSSRV IDTOASC,E,6,- ; IDENTIFIER TO ASCII CONVERSION | | | |
| E4C0 | 1894 | <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11 | | | |
| E4C8 | 1895 | GSYSSRV BRKTHRU,K,11,- ; BREAK THROUGH WRITES | | | |
| E4C8 | 1896 | <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11 | | | |
| E4D0 | 1897 | GSYSSRV GRANTID,ALL,5,- ; GRANT IDENTIFIER TO PROCESS | | | |
| E4D0 | 1898 | <R2,R3> ; REGISTERS R2-R3 | | | |
| E4D8 | 1899 | GSYSSRV REVOKID,ALL,5,- ; REVOKE IDENTIFIER FROM PROCESS | | | |
| E4D8 | 1900 | <R2,R3> ; REGISTERS R2-R3 | | | |
| E4E0 | 1901 | GSYSSRV CHKPRO,K,1,- ; GENERAL PROTECTION CHECK ROUTINE | | | |
| E4E0 | 1902 | <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11 | | | |
| E4E8 | 1903 | GCOMPSRVB BRKTHRUW,- ; BREAK THOUGH WRITE AND WAIT | | | |
| E4E8 | 1904 | <BRKTHRU MASK ! GETJPI_SYNCH_MASK> | | | |
| | | GCOMPSRVE 2 | | | |
| E4F8 | 1913 | GSYSSRV GETQUI,E,7,- ; GET QUEUE INFORMATION | | | |
| E4F8 | 1914 | <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; REGISTERS R2-R11 | | | |
| E500 | 1915 | GCOMPSRVB GETQUIW,- ; GET QUEUE INFORMATION AND WAIT | | | |
| E500 | 1916 | <GETQUI MASK ! GETJPI_SYNCH_MASK> | | | |
| E500 | 1917 | GCOMPSRVE 2 | | | |
| E510 | 1927 | | | | |
| 00004028 | E510 1928 : | CJFSKACSTR = 16424 | | | |
| E510 | 1929 : | | | | |
| E510 | 1930 : | | | | |
| E510 | 1931 | LDBSRV | CJFS, | ALLJDR, | K, <R4> |
| E518 | 1932 | LDBSRV | CJFS, | ASSJNL, | K, <R4> |
| E520 | 1933 | LDBSRV | CJFS, | CONUIC, | K, <R4> |
| E528 | 1934 | LDBSRV | CJFS, | CREJNL, | K, <R4> |
| E530 | 1935 | LDBSRV | CJFS, | DEALJDR, | K, <R4> |
| E538 | 1936 | LDBSRV | CJFS, | DEASJNL, | ALL, <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> |
| E540 | 1937 | LDBSRV | CJFS, | DEASJNL_INT, | K, <R4> |
| E548 | 1938 | LDBSRV | CJFS, | DELJNL, | K, <R4> |
| E550 | 1939 | LDBSRV | CJFS, | DMTJMD, | K, <R4> |
| E558 | 1940 | LDBSRV | CJFS, | DSPJNL, | K, <R4> |
| E560 | 1941 | LDBSRV | CJFS, | GETJNL, | K, <R4> |
| E568 | 1942 | LDBSRV | CJFS, | GETRUI, | K, <R4> |
| E570 | 1943 | LDBSRV | CJFS, | MODFLT, | K, <R4> |
| E578 | 1944 | LDBSRV | CJFS, | POSJNL, | K, <R4> |
| E580 | 1945 | LDBSRV | CJFS, | READJNL, | K, <R4> |
| E588 | 1946 | LDBSRV | CJFS, | RECOVER, | K, <R4> |
| E590 | 1947 | LDBSRV | CJFS, | MNTJMD, | K, <R4> |
| E598 | 1948 | LDBSRV | CJFS, | CRENWV, | K, <R4> |
| E5A0 | 1949 | LDBSRV | CJFS, | CONJNLF, | K, <R4> |
| E5A8 | 1950 | LDBSRV | CJFS, | DCNJNLF, | K, <R4> |
| E5B0 | 1951 | LDBSRV | CJFS, | FORCEJNL, | ALL, <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> |
| E5B8 | 1952 | LDBSRV | CJFS, | FORCEJNLW, | ALL, <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> |
| E5C0 | 1953 | LDBSRV | CJFS, | WRITEJNL, | ALL, <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> |
| E5C8 | 1954 | LDBSRV | CJFS, | WRITEJNLW, | ALL, <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> |
| E5D0 | 1955 | LDBSRV | CJFS, | GETCJI, | K, <R4> |
| E5D8 | 1956 | LDBSRV | CJFS, | DMTJMDW, | K, <R4>, 4, 5, DMTJMD |
| E5E8 | 1957 | LDBSRV | CJFS, | MODFLTW, | K, <R4>, 4, 5, MODFLT |
| E5F8 | 1958 | LDBSRV | CJFS, | POSJNLW, | K, <R4>, 4, 5, POSJNL |

E608 1959 LDBSRV CJFS, READJNLW, K, <R4>, 4, 5, READJNL
E618 1960 LDBSRV CJFS, RECOVERW, K, <R4>, 5, 6, RECOVER
E628 1961
E628 1962 :
00004010 E628 1963 : RUF\$KCASCTR = 16400
E628 1964 :
E628 1965 : LDBSRV RUF\$, REENTERRU, K, <R2,R3,R4,R5,R6>
E630 1966 : LDBSRV RUF\$, STARTRU, K, <R2,R3,R4,R5,R6>
E638 1967 : LDBSRV RUF\$, PHASE1, K, <R2,R3,R4,R5,R6>
E640 1968 : LDBSRV RUF\$, PHASE2, K, <R2,R3,R4,R5,R6>
E648 1969 : LDBSRV RUF\$, CANCELRU, K, <R2,R3,R4,R5,R6>
E650 1970 : LDBSRV RUF\$, MARKPOINTRU, K, <R2,R3,R4,R5,R6>
E658 1971 : LDBSRV RUF\$, RESETRU, K, <R2,R3,R4,R5,R6>
E660 1972 : LDBSRV RUF\$, DCLRUH, K, <R2,R3,R4,R5,R6>
E668 1973 : LDBSRV RUF\$, CANRUH, K, <R2,R3,R4,R5,R6>
E670 1974 : LDBSRV RUF\$, RUSTATUS, K, <R2,R3,R4,R5,R6>
E678 1975 :
E678 1976 : End Recovery Unit consists of a two-phase commit, so we call each
E678 1977 : phase separately.
E678 1978 :
E678 1979 : GCOMPSRVB ENDRU, <PHASE1_MASK ! PHASE2_MASK>, RUF\$; End Recovery Unit
E678 1990 : GCOMPSRVE 2
E688 1991 : GSYSSRV MTACCESS K,6,- ;Mag tape installation specific access routi
E688 1992 : <R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ;REGISTERS R2-R11
E690 1993 :
E690 1994 :
E690 1995 : End of system service vector definitions. New system services are
E690 1996 : to be added at this point.
E690 1997 :
E690 2003 :

SYSSP1 VECTOR
V04-000

- P1 SYSTEM SERVICE VECTOR DEFINITIONS J 4
REGION 2 OF SYS. SERV. VECTOR DEFINITION 16-SEP-1984 00:40:54 VAX/VMS Macro V04-00
5-SEP-1984 03:40:37 [SYS.SRC]CMODSSDSP.MAR;1

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(1)

PAG
V04

E690 2269

SYSSP1 VECTOR
V04-000

- P1 SYSTEM SERVICE VECTOR DEFINITIONS ^{K 4}
REGION 2 OF SYS. SFRV. VECTOR DEFINITION 16-SEP-1984 00:40:54 VAX/VMS Macro V04-00
5-SEP-1984 03:40:37 [SYS.SRC]CMODSSDSP.MAR;1

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(2)

E690 2345 .END

PAC
V04

| | | | |
|------------------|------------|------------------|------------|
| \$SARGS | = 00000008 | GETDVIS_NULLARG | = 00000020 |
| \$ST1 | = 00000024 | GETJPIS_ASTADR | = 00000018 |
| CATO | = 00000001 | GETJPIS_ASTPRM | = 0000001C |
| CAT? | = 00000080 | GETJPIS_EFN | = 00000004 |
| CJF\$ALLJDR | 7FFEE510 G | GETJPIS_IOSB | = 00000014 |
| CJF\$ASSJNL | 7FFEE518 G | GETJPIS_ITMLST | = 00000010 |
| CJF\$CONJNL | 7FFEE5A0 G | GETJPIS_NARGS | = 00000007 |
| CJF\$CONUIC | 7FFEE520 G | GETJPIS_PIDADR | = 00000008 |
| CJF\$CREJNL | 7FFEE528 G | GETJPIS_PRCNAM | = 0000000C |
| CJF\$CREENWV | 7FFEE598 G | GETLKIS_ASTADR | = 00000014 |
| CJF\$DCNJNL | 7FFEE5A8 G | GETLKIS_ASTPRM | = 00000018 |
| CJF\$DEALJDR | 7FFEE530 G | GETLKIS_EFN | = 00000004 |
| CJF\$DEASJNL | 7FFEE538 G | GETLKIS_IOSB | = 00000010 |
| CJF\$DEASJNL_INT | 7FFEE540 G | GETLKIS_ITMLST | = 0000000C |
| CJF\$DELJNL | 7FFEE548 G | GETLKIS_LKIDADR | = 00000008 |
| CJF\$DMTJMD | 7FFEE550 G | GETLKIS_NARGS | = 00000007 |
| CJF\$DMTJMDW | 7FFEE5D8 G | GETLKIS_RESERVED | = 0000001C |
| CJF\$DSPJNL | 7FFEE558 G | GETSYIS_ASTADR | = 00000018 |
| CJF\$FORCEJNL | 7FFEE580 G | GETSYIS_ASTPRM | = 0000001C |
| CJF\$FORCEJNLW | 7FFEE588 G | GETSYIS_CSIDADR | = 00000008 |
| CJF\$GETCJI | 7FFEE5D0 G | GETSYIS_EFN | = 00000004 |
| CJF\$GETJNL | 7FFEE560 G | GETSYIS_IOSB | = 00000014 |
| CJF\$GETRUI | 7FFEE568 G | GETSYIS_ITMLST | = 00000010 |
| CJF\$KCASCTR | = 00004028 | GETSYIS_NARGS | = 00000007 |
| CJF\$MNTJMD | 7FFEE590 G | GETSYIS_NODENAME | = 0000000C |
| CJF\$MODFLT | 7FFEE570 G | LIBSWITCH | = 00000001 |
| CJF\$MODFLTW | 7FFEE5E8 G | P1VSWITCH | = 00000001 |
| CJF\$POSJNL | 7FFEE578 G | QIOS_ASTADR | = 00000014 |
| CJF\$POSJNLW | 7FFEE5F8 G | QIOS_ASTPRM | = 00000018 |
| CJF\$READJNL | 7FFEE580 G | QIOS_CHAN | = 00000008 |
| CJF\$READJNLW | 7FFEE608 G | QIOS_EFN | = 00000004 |
| CJF\$RECOVER | 7FFEE588 G | QIOS_FUNC | = 0000000C |
| CJF\$RECOVERW | 7FFEE618 G | QIOS_IOSB | = 00000010 |
| CJF\$WRITEJNL | 7FFEE5C0 G | QIOS_NARGS | = 0000000C |
| CJF\$WRITEJNLW | 7FFEE5C8 G | QIOS_P1 | = 0000001C |
| DEF MASK | = 00000081 | QIOS_P2 | = 00000020 |
| ENQS_ACMODE | = 00000028 | QIOS_P3 | = 00000024 |
| ENQS_ASTADR | = 0000001C | QIOS_P4 | = 00000028 |
| ENQS_ASTPRM | = 00000020 | QIOS_P5 | = 0000002C |
| ENQS_BLKAST | = 00000024 | QIOS_P6 | = 00000030 |
| ENQS_EFN | = 00000004 | RMSVECEND | 7FFEE288 |
| ENQS_FLAGS | = 00000010 | RUF\$CANCELRU | 7FFEE648 G |
| ENQS_LKMODE | = 00000008 | RUF\$CANRUH | 7FFEE668 G |
| ENQS_LKSB | = 0000000C | RUF\$DCLRUH | 7FFEE660 G |
| ENQS_NARGS | = 00000008 | RUF\$ENDRU | 7FFEE678 G |
| ENQS_PARID | = 00000018 | RUF\$KCASCTR | = 00004010 |
| ENQS_PROT | = 0000002C | RUF\$MARKPOINTRU | 7FFEE650 G |
| ENQS_RESNAM | = 00000014 | RUF\$PHASE1 | 7FFEE638 G |
| EXC MASK | = 00000080 | RUF\$PHASE2 | 7FFEE640 G |
| GETDVIS_ASTADR | = 00000018 | RUF\$REENTERRU | 7FFEE628 G |
| GETDVIS_ASTPRM | = 0000001C | RUF\$RESETRU | 7FFEE658 G |
| GETDVIS_CHAN | = 00000008 | RUF\$RUSTATUS | 7FFEE670 G |
| GETDVIS_DEVNAM | = 0000000C | RUF\$STARTRU | 7FFEE630 G |
| GETDVIS_EFN | = 00000004 | SNDJBCS_ASTADR | = 00000018 |
| GETDVIS_IOSB | = 00000014 | SNDJBCS_ASTPRM | = 0000001C |
| GETDVIS_ITMLST | = 00000010 | SNDJBCS_EFN | = 00000004 |
| GETDVIS_NARGS | = 00000008 | SNDJBCS_FUNC | = 00000008 |

| | | | |
|------------------|------------|----------------|------------|
| SNDJBC\$_IOSB | = 00000014 | SYSSDGBLSC | 7FFEDF18 G |
| SNDJBC\$_ITMLST | = 00000010 | SYSSDISCONNECT | 7FFEE1D0 G |
| SNDJBC\$_NARGS | = 00000007 | SYSSDISPLAY | 7FFEE1D8 G |
| SNDJBC\$_NULLARG | = 0000000C | SYSSDLCDNP | 7FFEDF20 G |
| SVVECREG2 | = 7FFEE3C0 | SYSSDLCEFC | 7FFEDF28 G |
| SYNCHS_EFN | = 00000004 | SYSSENQ | 7FFEE3C0 G |
| SYNCHS_IOSB | = 00000008 | SYSSENQW | 7FFEE3D0 G |
| SYNCHS_NARGS | = 00000002 | SYSSENTER | 7FFEE228 G |
| SYSSADJSTK | 7FFEDE20 | SYSSERAPAT | 7FFEE470 G |
| SYSSADJWSL | 7FFEDE28 | SYSSERASE | 7FFEE1E0 G |
| SYSSALCDNP | 7FFEDE30 | SYSSSEXCMMSG | 7FFEE0E8 G |
| SYSSALLOC | 7FFEDE38 | SYSSSEXIT | 7FFEDF40 G |
| SYSSASCEFC | 7FFEDE40 | SYSSEXPREG | 7FFEDF48 G |
| SYSSASCTIM | 7FFEDE48 | SYSSEXTEND | 7FFEE1E8 G |
| SYSSASCTOID | 7FFEDE4B0 | SYSSFAO | 7FFEDF50 G |
| SYSSASSIGN | 7FFEDE50 | SYSSFAOL | 7FFEDF58 G |
| SYSSBINTIM | 7FFEDE58 | SYSSFILESCAN | 7FFEE278 G |
| SYSSBRDCST | 7FFEE098 | SYSSFIND | 7FFEE170 G |
| SYSSBRKTHRU | 7FFEDE4C8 | SYSSFINISH_RDB | 7FFEE488 G |
| SYSSBRKTHRUW | 7FFEDE4E8 | SYSSFLUSH | 7FFEE1F0 G |
| SYSSCALL HANDL | = 80000010 | SYSSFORCEX | 7FFEDF60 G |
| SYSSCANCEL | 7FFEDE60 | SYSSFREE | 7FFEE178 G |
| SYSSCANEXH | 7FFEEOC0 | SYSSGET | 7FFEE180 G |
| SYSSCANTIM | 7FFEDE68 | SYSSGETCHN | 7FFEE0C8 G |
| SYSSCANWAK | 7FFEDE70 | SYSSGETDEV | 7FFEE0D0 G |
| SYSSCHKPRO | 7FFEDE4E0 | SYSSGETDVI | 7FFEE410 G |
| SYSSCLI | 7FFEDE18 | SYSSGETDVIW | 7FFEE418 G |
| SYSSCLOSE | 7FFE1B8 | SYSSGETJPI | 7FFEE0D8 G |
| SYSSCLRAST | 7FFE108 | SYSSGETJPIW | 7FFEE420 G |
| SYSSCLREF | 7FFEDE98 | SYSSGETLKI | 7FFEE498 G |
| SYSSCLRPAR | 7FFEDE80 | SYSSGETLKIW | 7FFEE4A0 G |
| SYSSCMEXEC | 7FFEDE88 | SYSSGETMSG | 7FFEE0B0 G |
| SYSSCMKRLN | 7FFEDE90 | SYSSGETPTI | 7FFEDEA8 G |
| SYSSCNTREG | 7FFEDEA0 | SYSSGETQUI | 7FFEE4F8 G |
| SYSSCONNECT | 7FFE1C0 | SYSSGETQUIW | 7FFEE500 G |
| SYSSCREATE | 7FFE1C8 | SYSSGETSYI | 7FFEE3F8 G |
| SYSSCRELNM | 7FFE4B0 | SYSSGETSYIW | 7FFEE430 G |
| SYSSCRELNT | 7FFE478 | SYSSGETTIM | 7FFEDF78 G |
| SYSSCRELOG | 7FFEDEB0 | SYSSGL_ASTRET | 7FFEE110 G |
| SYSSCREMBX | 7FFEDEB8 | SYSSGL_COMMON | 7FFEE114 G |
| SYSSCREPRC | 7FFEDEC0 | SYSSGRANTID | 7FFEE4D0 G |
| SYSSCRETVA | 7FFEDEC8 | SYSSHIBER | 7FFEDF88 G |
| SYSSCRMPSC | 7FFEDE78 | SYSSIDTOASC | 7FFEE4C0 G |
| SYSSDACEFC | 7FFEDED0 | SYSSIMGACT | 7FFEDF90 G |
| SYSSDALLOC | 7FFEDED8 | SYSSIMGFIX | 7FFEE400 G |
| SYSSDASSGN | 7FFEDEE0 | SYSSIMGFIX_2 | 7FFEE408 G |
| SYSSDCLAST | 7FFEDEE8 | SYSSIMGSTA | 7FFEDF68 G |
| SYSSDCLCMH | 7FFEEOA0 | SYSSLCKPAG | 7FFEDF98 G |
| SYSSDCLEXH | 7FFEDEF0 | SYSSLKWSET | 7FFEDFA0 G |
| SYSSDELETE | 7FFE168 | SYSSMGBLSC | 7FFEDFA8 G |
| SYSSDELLNM | 7FFE4B8 | SYSSMODIFY | 7FFEE1F8 G |
| SYSSDELLOG | 7FFEDEF8 | SYSSMTACCESS | 7FFEE6B8 G |
| SYSSDELMBX | 7FFEDF00 | SYSSNUMTIM | 7FFEDFB8 G |
| SYSSDELPRC | 7FFEDF08 | SYSSNXTVOL | 7FFEE200 G |
| SYSSDELTVA | 7FFEDF10 | SYSSOPEN | 7FFEE208 G |
| SYSSDEQ | 7FFE3C8 | SYSSPARSE | 7FFEE230 G |
| SYSSDERLMB | 7FFE0B8 | SYSSPURGWS | 7FFEDF80 G |

| | | | | | |
|----------------|----------|----|-----------------|------------|---|
| SYSSPUT | 7FFEE188 | G | SYSSWAKE | 7FFEE080 | G |
| SYSSPUTMSG | 7FFEE0E0 | GG | SYSSWFLAND | 7FFEE088 | G |
| SYSSQIO | 7FFEDFC8 | GG | SYSSWFLOR | 7FFEE090 | G |
| SYSSQIOW | 7FFEDE00 | GG | SYSSWRITE | 7FFEE1B0 | G |
| SYSSREAD | 7FFEE190 | GG | UPDSEC\$-ACMODE | = 0000000C | |
| SYSSREADEF | 7FFEDFD0 | GG | UPDSEC\$-ASTADR | = 0000001C | |
| SYSSRELEASE | 7FFEE198 | GG | UPDSEC\$-ASTPRM | = 00000020 | |
| SYSSREMOVE | 7FFEE238 | GG | UPDSEC\$-EFN | = 00000014 | |
| SYSSRENAME | 7FFEE240 | GG | UPDSEC\$-INADR | = 00000004 | |
| SYSSRESUME | 7FFEDFD8 | GG | UPDSEC\$-IOSB | = 00000018 | |
| SYSSREVOKID | 7FFEE4D8 | GG | UPDSEC\$-NARGS | = 00000008 | |
| SYSSREWIND | 7FFEE210 | GG | UPDSEC\$-RETADR | = 00000008 | |
| SYSSRMSRUHNDLR | 7FFEE270 | GG | UPDSEC\$-UPDFLG | = 00000010 | |
| SYSSRMSRUNDWN | 7FFEE268 | GG | VECBASE | 7FFEDE00 | |
| SYSSRUNDWN | 7FFEDFE0 | GG | | | |
| SYSSCHDWK | 7FFEDFF0 | GG | | | |
| SYSSSEARCH | 7FFEE248 | GG | | | |
| SYSSSETAST | 7FFEDFF8 | GG | | | |
| SYSSSETDDIR | 7FFEE250 | GG | | | |
| SYSSSETDFPROT | 7FFEE258 | GG | | | |
| SYSSSETEF | 7FFEE000 | GG | | | |
| SYSSSETEXV | 7FFEE008 | GG | | | |
| SYSSSETIME | 7FFEE0F8 | GG | | | |
| SYSSSETIMR | 7FFEE020 | GG | | | |
| SYSSSETPFM | 7FFEE0A8 | GG | | | |
| SYSSSETPRA | 7FFEE018 | GG | | | |
| SYSSSETPRI | 7FFEE028 | GG | | | |
| SYSSSETPRN | 7FFEE010 | GG | | | |
| SYSSSETPRT | 7FFEE030 | GG | | | |
| SYSSSETPRV | 7FFEE100 | GG | | | |
| SYSSSETRWM | 7FFEEC38 | GG | | | |
| SYSSSETSFM | 7FFEE040 | GG | | | |
| SYSSSETSSF | 7FFEE3E8 | GG | | | |
| SYSSSETSTK | 7FFEE3F0 | GG | | | |
| SYSSSETSWM | 7FFEE048 | GG | | | |
| SYSSSNDACC | 7FFEE0F0 | GG | | | |
| SYSSSNDERR | 7FFEDF38 | GG | | | |
| SYSSSNDJBC | 7FFEDF70 | GG | | | |
| SYSSSNDJBCW | 7FFEE438 | GG | | | |
| SYSSNDOPR | 7FFEDFC0 | GG | | | |
| SYSSNDNSMB | 7FFEDFE8 | GG | | | |
| SYSSSPACE | 7FFEE218 | GG | | | |
| SYSSSRCHANDLER | 7FFEE118 | GG | | | |
| SYSSSSVEXC | 7FFEE260 | GG | | | |
| SYSSSUSPND | 7FFEE050 | GG | | | |
| SYSSSYNCH | 7FFEE440 | GG | | | |
| SYSSTRNLNM | 7FFEE490 | GG | | | |
| SYSSTRNLOG | 7FFEEU58 | GG | | | |
| SYSSTRUNCATE | 7FFEE220 | GG | | | |
| SYSSULKAG | 7FFEE060 | GG | | | |
| SYSSULWSET | 7FFEE068 | GG | | | |
| SYSSUNWIND | 7FFEE070 | GG | | | |
| SYSSUPDATE | 7FFEE1A0 | GG | | | |
| SYSSUPDSEC | 7FFEDF30 | GG | | | |
| SYSSUPDSECW | 7FFEDF80 | GG | | | |
| SYSSWAIT | 7FFEE1A8 | GG | | | |
| SYSSWAITFR | 7FFEE078 | G | | | |

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+-----+
! Psect synopsis !
+-----+
```

| PSECT name | Allocation | PSECT No. | Attributes | | | | | | | | | | | | | | | |
|------------|-------------------|-----------|------------|-----|-----|-----|-----|-------|-------|------|-------|-------|------|--|--|--|--|--|
| : ABS . | 00000000 (0.) | 00 (0.) | NOPIC | USR | CON | ABS | LCL | NOSHR | NOEXE | NORD | NOWRT | NOVEC | BYTE | | | | | |
| \$ABSS | 00000000 (0.) | 01 (1.) | NOPIC | USR | CON | ABS | LCL | NOSHR | EXE | RD | WRT | NOVEC | BYTE | | | | | |
| \$\$\$0000 | 7FFEE690 (*****.) | 02 (2.) | NOPIC | USR | CON | ABS | LCL | NOSHR | EXE | RD | WRT | NOVEC | QUAD | | | | | |

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+-----+
! Performance indicators !
+-----+
```

| Phase | Page faults | CPU Time | Elapsed Time |
|------------------------|-------------|-------------|--------------|
| Initialization | 35 | 00:00:00.03 | 00:00:01.89 |
| Command processing | 117 | 00:00:00.81 | 00:00:07.40 |
| Pass 1 | 597 | 00:00:20.90 | 00:01:22.01 |
| Symbol table sort | 0 | 00:00:02.16 | 00:00:05.76 |
| Pass 2 | 207 | 00:00:05.87 | 00:00:21.08 |
| Symbol table output | 35 | 00:00:00.24 | 00:00:01.41 |
| Psect synopsis output | 3 | 00:00:00.02 | 00:00:00.43 |
| Cross-reference output | 0 | 00:00:00.00 | 00:00:00.00 |
| Assembler run totals | 996 | 00:00:30.03 | 00:01:59.98 |

The working set limit was 2250 pages.

183693 bytes (359 pages) of virtual memory were used to buffer the intermediate code.

There were 70 pages of symbol table space allocated to hold 1356 non-local and 0 local symbols.

2347 source lines were read in Pass 1, producing 18 object records in Pass 2.

43 pages of virtual memory were used to define 39 macros.

```
+-----+
! Macro library statistics !
+-----+
```

| Macro library name | Macros defined |
|------------------------------------|----------------|
| \$255\$DUA28:[SYS.OBJ]LIB.MLB;1 | 6 |
| \$255\$DUA28:[SYSLIB]STARLET.MLB;2 | 18 |
| TOTALS (all libraries) | 24 |

1204 GETS were required to define 24 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:P1SYSVECT/OBJ=OBJ\$:\$P1SYSVECT MSRC\$:\$LBSW/UPDATE=(ENH\$:\$LBSW)+MSRC\$:\$P1SW/UPDATE=(ENH\$:\$P1SW)+MSRC\$:\$CMODSSDSP/UPDATE=(ENH\$

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